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Reviewer: Durreshwar Anjum

Timestamp: Wed May 23 12:34:02 EDT 2007

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Application No: 10584367 Version No: 1.1

Input Set:

Output Set:

Started: 2007-05-23 12:33:50.996

Finished: 2007-05-23 12:33:52.456

Elapsed: 0 hr(s) 0 min(s) 1 sec(s) 460 ms

Total Warnings: 0

Total Errors: 0

No. of SeqIDs Defined: 56

Actual SeqID Count: 56

# SEQUENCE LISTING

<110> Imperial Innovations Limited  
Tang, Christoph M

<120> Identification of Antigenically Important Neisseria Antigens by  
Screening Insertional Mutant Libraries with Antiserum

<130> 06-451

<140> 10/584,367

<141> 2006-07-26

<150> GB04/005441

<151> 2004-12-23

<150> PCT/GB04/005441

<151> 2004-12-23

<160> 56

<170> PatentIn version 3.3

<210> 1

<211> 2628

<212> DNA

<213> Neisseria meningitidis (group B)

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2628

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<211> 875

<212> PRT

<213> Neisseria meningitidis (group B)

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Ile	Ala	Val	Ser	Ser	Glu	Gln	Ala	Val	Arg	Asp	Pro	Val	Leu	Val	Phe
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Arg	Ile	Gly	Ala	Gly	Ala	Gln	Val	Arg	Glu	Tyr	Thr	Ala	Ile	Leu	Asp
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Pro	Val	Gly	Tyr	Ser	Pro	Lys	Thr	Lys	Ser	Ala	Leu	Ser	Asp	Gly	Lys
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Val Lys Pro Ala Tyr Asn Gly Lys Thr His Thr Val Arg Lys Gly Glu  
195 200 205

Thr Val Lys Gln Ile Ala Ala Ala Ile Arg Pro Lys His Leu Thr Leu  
210 215 220

Glu Gln Val Ala Asp Ala Leu Leu Lys Ala Asn Pro Asn Val Ser Ala  
225 230 235 240

His Gly Arg Leu Arg Ala Gly Ser Val Leu His Ile Pro Asn Leu Asn  
245 250 255

Arg Ile Lys Ala Glu Gln Pro Lys Pro Gln Thr Ala Lys Pro Lys Ala  
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Glu Thr Ala Ser Met Pro Ser Glu Pro Ser Lys Gln Ala Thr Val Glu  
275 280 285

Lys Pro Val Glu Lys Pro Glu Ala Lys Val Ala Ala Pro Glu Ala Lys  
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Ala Glu Lys Pro Ala Val Arg Pro Glu Pro Val Pro Ala Ala Asn Thr  
305 310 315 320

Ala Ala Ser Glu Thr Ala Ala Glu Ser Ala Pro Gln Glu Ala Ala Ala  
325 330 335

Ser Ala Ile Asp Thr Pro Thr Asp Glu Thr Gly Asn Ala Val Ser Glu  
340 345 350

Pro Val Glu Gln Val Ser Ala Glu Glu Glu Thr Glu Ser Gly Leu Phe  
355 360 365

Asp Gly Leu Phe Gly Gly Ser Tyr Thr Leu Leu Leu Ala Gly Gly Gly  
370 375 380

Ala Ala Leu Ile Ala Leu Leu Leu Leu Leu Arg Leu Ala Gln Ser Lys  
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Phe	Asp	Val	Glu	Thr	Asp	Thr	Pro	Ser	Asn	Arg	Ile	Asp	Leu	Asp	Phe		
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Thr Val Ala Glu Thr Pro Asp Phe Asn Ala Thr Ala Asp Asp Leu Ser  
660 665 670

Ala Leu Leu Gln Pro Ser Lys Val Pro Ala Val Glu Glu Asn Ala Ala  
675 680 685

Glu Thr Val Ala Asp Asp Leu Ser Ala Leu Leu Gln Pro Ala Glu Ala  
690 695 700

Pro Ala Val Glu Glu Asn Val Thr Glu Thr Val Ala Glu Thr Pro Asp  
705 710 715 720

Phe Asn Ala Thr Ala Asp Asp Leu Ser Ala Leu Leu Gln Pro Ser Glu  
725 730 735

Ala Pro Ala Val Glu Glu Asn Ala Ala Glu Thr Val Ala Asp Asp Leu  
740 745 750

Ser Ala Leu Leu Gln Pro Ala Glu Ala Pro Ala Val Glu Glu Asn Ala  
755 760 765

Ala Glu Ile Thr Leu Glu Thr Pro Asp Ser Asn Thr Ser Glu Ala Asp  
770 775 780

Ala Leu Pro Asp Phe Leu Lys Asp Gly Glu Glu Glu Thr Val Asp Trp  
785 790 795 800

Ser Ile Tyr Leu Ser Glu Glu Asn Ile Pro Asn Asn Ala Asp Thr Ser  
805 810 815

Phe Pro Ser Glu Ser Val Gly Ser Asp Ala Pro Ser Glu Ala Lys Tyr  
820 825 830

Asp Leu Ala Glu Met Tyr Leu Glu Ile Gly Asp Arg Asp Ala Ala Ala  
835 840 845

Glu Thr Val Gln Lys Leu Leu Glu Glu Ala Glu Gly Asp Val Leu Lys  
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Arg Ala Gln Ala Leu Ala Gln Glu Leu Gly Ile



865

870

875

&lt;210&gt; 3

&lt;211&gt; 483

&lt;212&gt; DNA

<213> *Neisseria meningitidis* (group B)

&lt;400&gt; 3

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&lt;212&gt; PRT

<213> *Neisseria meningitidis* (group B)

&lt;400&gt; 4

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Ser Phe Lys Leu Ala Gln Ser Trp Phe Arg Val Arg Ser Cys Leu Gly
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Gly Val Phe Ile Tyr Gly Ala Asn Met Lys Leu Ile Tyr Thr Val Ile
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```
Lys Ile Ile Ile Leu Leu Leu Phe Leu Leu Leu Ala Val Ile Asn Thr
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```

```
Asp Ala Val Thr Phe Ser Tyr Leu Pro Gly Gln Lys Phe Asp Leu Pro
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<213> Neisseria meningitidis (group B)

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<213> Neisseria meningitidis (group B)

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```

Gln Gln Gln Lys Ile Leu Gln Glu Thr Gly Phe Leu Thr Val Glu Ser
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```

```

His Gln Tyr Glu Arg Gly Trp Phe Thr Ser Met Glu Thr Thr Val Ile
          50           55           60

```

```

Arg Leu Lys Pro Glu Leu Leu Asn Asn Ala Arg Lys Tyr Leu Pro Asp
65           70           75           80

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Asn Leu Lys Thr Val Leu Glu Gln Pro Val Thr Leu Val Asn His Ile
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Thr His Gly Pro Phe Ala Gly Gly Phe Gly Thr Gln Ala Tyr Ile Glu
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Thr Glu Phe Lys Tyr Ala Pro Glu Thr Glu Lys Val Leu Glu Arg Phe
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145 150 155 160

Leu Ser Gly Ile Arg Leu His Trp Glu Gly Leu Thr Gly Glu Thr Val  
165 170 175

Tyr Gln Lys Gly Phe Lys Ser Tyr Arg Asn Gly Tyr Asp Ala Pro Leu  
180 185 190

Phe Lys Ile Lys Leu Ala Asp Lys Gly Asp Ala Ala Phe Glu Lys Val  
195 200 205

His Phe Asp Ser Glu Thr Ser Asp Gly Ile Asn Pro Leu Ala Leu Gly  
210 215 220

Ser Ser Asn Leu Thr Leu Glu Lys Phe Ser Leu Glu Trp Lys Glu Gly  
225 230 235 240

Val Asp Tyr Asn Val Lys Leu